

## Roadmap to Success: Analysis Modeling (Instructor-Led Classroom)

### Course Description

This two-day, hands-on, intensive course builds skills in analysis modeling, a crucial activity for successful requirements development. Designed for attendees who have taken EBG's *Foundation for Requirements Development and Management* self-paced offering, Analysis Modeling is grounded on the EBG Requirements Roadmap\* as a guide to select, build, verify, and validate requirements models. You'll learn how the models interconnect to provide a rich set of requirements representations.

Navigating with the Roadmap and using an integrated case study, you'll gain hands-on experience working in a small team to create a comprehensive set of sixteen requirements models. You'll consider which models to use for enhancements to existing software or selection of COTS (commercial off-the-shelf) software. You'll learn good requirements practices, including risk reduction, based on decades of engineering and practical project experience.

In this carefully designed and executed learning environment you'll actively learn through lecture, examples, discussions, exercises, and review sessions.

This course is endorsed by the International Institute of Business Analysis (IIBA™) and aligns with the IIBA's Business Analysis Body of Knowledge (BABOK®) applicable tasks and techniques. You'll earn 14 CDUs (Continuing Development Units) for attending this course.

\*The EBG Requirements Roadmap is a set of interrelated models (behavioral, structural, dynamic, and control) at varying levels of detail.

### Who Should Attend

This course is valuable for business analysts, subject matter experts, business rule analysts, application analysts, data or object analysts, data architects, data administrators, project managers, project leaders, and application designers—anyone involved in discovering, analyzing, specifying, verifying, and validating business requirements and translating them into analysis models and software requirements. Exposure to general application analysis and analysis modeling is preferable.

### Course Prerequisites

*Roadmap to Success: Foundation for Requirements Development and Management* (or equivalent experience)

### Course Length

2 days

### Course Objectives

- Describe fundamental principles of modeling requirements
  - Identify four model views, and list the models for each view
- Define scope-level user requirements
  - Identify stakeholders
  - Uncover events and responses to establish the basis for functional requirements
  - Draw a context diagram to visualize product boundaries
  - Model conceptual data requirements
  - Visualize the states of a business topic
  - Identify business policies
  - Depict the flow of activities on a process map
- Define high-level and detailed user requirements
  - Define actors
  - Write use case details
  - Write scenarios and stories
  - Model data attributes
  - Understand why business rules are the heart of functional requirements and how to write them at an atomic level
  - Know when to do business modeling and which models to choose
- Navigate the EBG Requirements Roadmap
  - Demonstrate how scope and detailed models interconnect and complement each other to provide a complete set of requirements
  - Identify useful requirements models for acquiring a software package or enhancing software
  - Employ several techniques to verify requirements
  - Define product releases using events, use cases, or stories

### Course Materials

The participant's manual includes detailed text and illustrations. The rich, reusable requirements toolset includes a case study and solution, specification templates, worksheets, checklists, and references. You'll also receive a copy of the EBG Requirements Roadmap and a copy of *The Software Requirements Memory Jogger: A Pocket Guide to Help Software and Business Teams Develop and Manage Requirements*, by Ellen

Gottesdiener. You'll reference the latter to aid you in understanding and building the models.

**Course Outline**

- 1. Introduction to Requirements**
  - Requirements types, levels, and documentation
  - Requirements quality characteristics
- 2. Setting the Stage: Requirements Scope and Elicitation**
  - EBG Requirements Roadmap
  - Project charter, product vision
  - Stakeholder categories
  - Event-response table
  - Context diagram
  - Conceptual data model
  - Business policies
  - Requirements elicitation techniques
- 3. Requirements Modeling: The Complete Roadmap**
  - Actors and use cases
  - Use case map and use case packages
  - Scenarios and stories
  - Atomic business rules, decision tables, decision trees
  - Logical data model
  - Data dictionary
  - States and state diagrams
  - Prototypes, dialog maps, and personas
  - Business modeling
  - Relationship map
  - Process map
- 4. Roadmap Navigation**
  - Roadmap navigation strategies
  - Requirements for COTS selection
  - Requirements for enhancements
  - Requirements verification
  - Requirements prioritization
  - Product releases
  - Requirements specification
- 5. Requirements Good Practices**
  - Common requirements risks
  - Risk inoculation
  - Adapting requirements